**Spike Plan 01:**

**Name:** Testing different data structure to check the best time

**Context:**

We used benchmark to check which data structure is best to use for the Morse code app and choose the optimal performance throughout various tests. The spike code goes uses different benchmarks to check for discrepancies or anomalies and any risks are arranged and mitigated.

**Gap:**

There are various variables which might affect the accuracy of each of the benchmark. The unit of measurement might not the most accurate unit used to measure for comparison. We are using Milliseconds to check for accurate

**Goals/Deliverables:**

The goal of the spike is compare the performance between two data structures used to store the information, and to check which one runs faster and is optimal to utilize the Morse code application. The deliverable is this plan is the time taken to run the code.

**Planned Date:** 6/5/017

**Deadline:** 8/5/017

**Planned Notes:**

1. We took our time checking every data structure, noting any discrepancies, taking on average of at least 10.000 counts and then coming up with optimal choice for our preference.
2. We divided our work by one coming up with the source code and the other writing the documentary and report of the tests conducted.
3. We tackled the primary risk first, that is testing the optimal combination and then checking its usability, durability, and accessibility.